

REMOTE CLASSROOM



DETERMINED TO MAINTAIN ACCESS TO HIGH QUALITY LESSONS

COMPUTING work for students NOT attending school

Monday 16 November – Thursday 26 November

SUBJECT	Computing
Year Group	7
Fortnight beginning	16 th November – 27 th November
Remote Classroom work	<p>We are approaching the final assessment for the Dragons unit. You will need to carry out two tasks: Revision, and then Assessment.</p> <p>Task 1 Task 1 is revision for the final assessment Open the following worksheet and try and complete the tasks:</p> <ul style="list-style-type: none"> S:\ICT\Key Stage 3\Year 7\7.2 - Dragons\Lesson 7 - Assessment\Worksheet 7 - Revision.docx <p>Here is a video that recaps <u>Binary code</u> and how it can be used to represent decimal numbers as well as <u>Sorting algorithms</u> https://youtu.be/yY21wV10deU</p> <p>The following video will recap <u>Logic Gates</u> and how they are used to manipulate binary numbers within a computer system: https://youtu.be/QNOQKTjWP1o</p> <p>This video that explains how to convert between <u>Denary and Hexadecimal</u>: https://youtu.be/FyFG0AhEAJk</p> <p>Task 2 Here is the assessment task designed to test your knowledge of Binary, Binary Addition, Sorting, Logic Gates and Hexadecimal.</p> <p>Open the following Presentation and read through it to help you prepare for the assessment:</p> <ul style="list-style-type: none"> S S:\ICT\Key Stage 3\Year 7\7.2 - Dragons\Assessment\ Dragons - End of Unit Assessment 1.xlsm <p>When you have completed the assessment, take a screenshot of your final score and send it to your teacher.</p>

SUBJECT	Computing
Year Group	8
Fortnight beginning	16 th November – 27 th November
Remote Classroom work	<p>Continuing with the Interactive ICT Quiz.</p> <p>Task 1 Start by ensuring that all of the slides on your presentation are properly linked together using hyperlinks to allow you to go to the correct page when navigating through the quiz. The following video will go over how you can do that. https://youtu.be/lyqPof8gXGk</p> <p>Task 2 Go through the presentation that you have created and try to identify any issues that may still be present in your work. This can be anything from spelling errors, inconsistent font sizes,</p> <p>A presentation is located here that should help you to evaluate the work that you have done so far:</p> <ul style="list-style-type: none"> • S:\ICT\Key Stage 3\Year 8\8.1 Interactive Quiz\Lesson 7\Interactive Quiz - Making Improvements.pptx <p>You need to:</p> <ul style="list-style-type: none"> • Pick one of the improvements that was identified last lesson and take a screenshot of the problem • Explain what is wrong with the slide at the moment • Make the Improvement and take another screenshot of it • Explain how you made the improvement <p>Task 3 Open the evaluation file, located ion the following folder:</p> <ul style="list-style-type: none"> • S:\ICT\Key Stage 3\Year 8\8.1 Interactive Quiz\Lesson 8\3 (Self) Interactive Quiz Evaluation.docx <p>Now that you have completed your presentation and made improvements to it, you need to evaluate your progress on the project. You will need to:</p> <ul style="list-style-type: none"> • Discuss your plans and designs and explain how you created the layout you came up with • Explain the content that you used, including images and questions • Reflect on your understanding of the task and how well you feel you worked • Identify 2 things that you are most pleased with and one that you wish you could still improve

SUBJECT	Computing
Year Group	9
Fortnight beginning	16 th November – 27 th November

Remote Classroom work	<p>As part of the computing course, we have been taking part in the UK BEBRAS challenge which allows students to take part in a number of Computing challenges using Logic in order to answer questions</p> <p>Task 1 The following presentation explains how the challenges work and provides some examples for you to work through:</p> <ul style="list-style-type: none"> • S:\ICT\Key Stage 3\Year 9\Computer Science\Bebras Challenge\1-2 Bebras Challenge.pptx <p>When you have used the presentation to see how the challenges work, go to the following website:</p> <ul style="list-style-type: none"> • https://challenge.bebbras.uk/index.php?action=user_competitions • Click on Intermediate (age 14-16) • Click start to attempt the 2019 challenge <p>Task 2 For students who have completed the BEBRAS challenge, a more advanced set of tasks is available with the Oxford Computing Challenges. A presentation, explaining the challenges and providing links to the correct sites, is located here:</p> <ul style="list-style-type: none"> • S:\ICT\Key Stage 3\Year 9\Computer Science\Bebras Challenge\Oxford Computing Challenge.pptx
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SUBJECT	GCSE Computer Science
Year Group	10
Fortnight beginning	16 th November – 27 th November
Remote Classroom work	<p>As we are nearing the end of this unit of work students should now have a good understanding of the basic Python commands and syntax as well as knowledge of the use of variables, loops (while and for), selection (if, elif, else) and lists. In the upcoming lessons students will learn about how to use libraries, functions and procedures within their programs.</p> <p>Students should read through the presentations for the following lessons and complete the relevant worksheets, ensuring they add in screenshots of their completed code for each question:</p> <ul style="list-style-type: none"> • Lessons 11 and 12 - Libraries • Lessons 13 and 14 - Functions and Procedures • Lesson 15 - Turtle <p>Python IDLE can be downloaded here</p> <ul style="list-style-type: none"> • https://www.python.org/downloads/ <p>Alternatively an online IDE can be used here</p> <ul style="list-style-type: none"> • https://repl.it/languages/python3 <p>All resources can be found at the following location</p> <ul style="list-style-type: none"> • S:\ICT\Mr Murphy\Key Stage 4\Computer Science\6 - Python

SUBJECT	GCSE Computer Science
Year Group	11
Fortnight beginning	16 th November – 27 th November
Remote Classroom work	<p>The following tasks are the beginning of a new unit on the subject of Computing Related Laws and Legislation.</p> <p>Task 1 Access the following presentation about the <u>Data Protection</u>.</p> <ul style="list-style-type: none"> S:\ICT\Computer Science\GCSE Computer Science 9-1\11. Computers and the Law\1 - The Data Protection Act.pptx <p>Go through the presentation and answer the questions on the subject of Data Protection and the General Data Protection Regulation</p> <p>Task 2 Open the following presentation about the <u>Copyright Design and Patents Act</u>.</p> <ul style="list-style-type: none"> S:\ICT\Computer Science\GCSE Computer Science 9-1\11. Computers and the Law\2 - The Copyright Design and Patents Act.pptx <p>Read about the Copyright, Design and patents Act and look into the way it applies to you, in education. Answer the examination questions.</p> <p>Task 3 Open the following presentation about the <u>Computer Misuse Act</u>.</p> <ul style="list-style-type: none"> S:\ICT\Computer Science\GCSE Computer Science 9-1\11. Computers and the Law\3 - The Computer Misuse Act.pptx <p>Read about the Computer Misuse Act, why it was created and what its purpose is. Answer the examination questions.</p>

SUBJECT	BTEC Computing
Year Group	12
Fortnight beginning	16 th November – 27 th November
Remote Classroom work	<p>Mr Allan We are working on the Logic Module for Unit 2. There are three tasks on the subject of Programming and Flowcharts designed to allow you to explain the flow of data through a system</p> <p>For each task you will need to create the program in python and then develop a flowchart to represent your code. This can be done by hand or using the website: draw.io</p> <p>The three tasks are located in here:</p> <ul style="list-style-type: none"> S:\ICT\Computer Science\BTEC Computing\Unit 2 - Fundamentals of Computer Systems\F – Logic\11 -Flowcharts.pptx <p>An end of unit assessment task is also located here, and should be completed and submitted for assessment when you have completed the previous tasks:</p> <ul style="list-style-type: none"> S:\ICT\Computer Science\BTEC Computing\Unit 2 - Fundamentals of Computer Systems\F – Logic\End of Unit Assessment - Logic and Sequencing.docx <p>Mr Murphy Students to use presentation titled Section2a – A Brief history of Video Gaming, to complete worksheet 2a.</p> <p>They should use the video links which are available in the notes pane of slide 7</p>

	<p>in the lesson presentation to aid their research.</p> <p>The write up for this section should be around 1 page word processed in a suitable font size 10-12.</p> <p>If students complete this task they should begin creating a infographic showing the main eras of video game development up to present day.</p> <p>The presentation can be found at the following location:</p> <ul style="list-style-type: none"> S:\ICT\Mr Murphy\Key Stage 5\BTEC Computing\Unit 14 - Computer Games Development\Presentations <p>Mr Rigby Students are undertaking a task on the subject of Decomposition and modularity and should see Class Charts for specific Instructions</p>
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SUBJECT	BTEC Computing
Year Group	13
Fortnight beginning	16 th November – 27 th November
Remote Classroom work	<p>Mr Allan This task will require you to start Assessment Criteria P5 – Explain how Protection Techniques can help to defend an Organisation from Security Threats</p> <p>The first part of this task will look at Physical Security, including Biometrics, Building Security and the layers of defence that prevent data access without suitable permission:</p> <p>Watch the video on Google’s security systems here: https://www.youtube.com/watch?v=kd33UVZhnAA</p> <p>The task is located here and will require you to identify 6-8 methods of physical security that will keep the data at the GAS company safe from external access. S:\ICT\Computer Science\BTEC Computing\Unit 7 - Network Security and Encryption\ 2. Security Systems - 1 Building and Computer Security – Biometrics.pptx</p> <p>Mr Murphy Students should now have completed their write up for the Internal Threats section of this unit and should also have completed the social engineering category of External Threats. Students should continue reading through the information in the lesson presentation (from slide 22 onwards) and complete the write-ups for the next two sections of the report:</p> <p>External Threats</p> <ul style="list-style-type: none"> Physical Threats Software Driven Threats <p>Students should remember to include suitable real-world examples where suitable to reinforce their points.</p> <p>Lesson presentation for P1 can be found:</p> <ul style="list-style-type: none"> S:\ICT\Mr Murphy\Key Stage 5\BTEC Computing\Unit 7 - IT Systems Security and Encryption

All word processed documents should be in a standard font size (10/12)

Mr Rigby

Students re undertaking a lesson on the subject of HTML and Web design and should see Class charts for more specific Information